



QUEEN'S SCIENCE '12

THE  
JACKSON  
PRESS  
KINGSTON

Presented  
to our  
Principal  
from the members of  
Science '12.

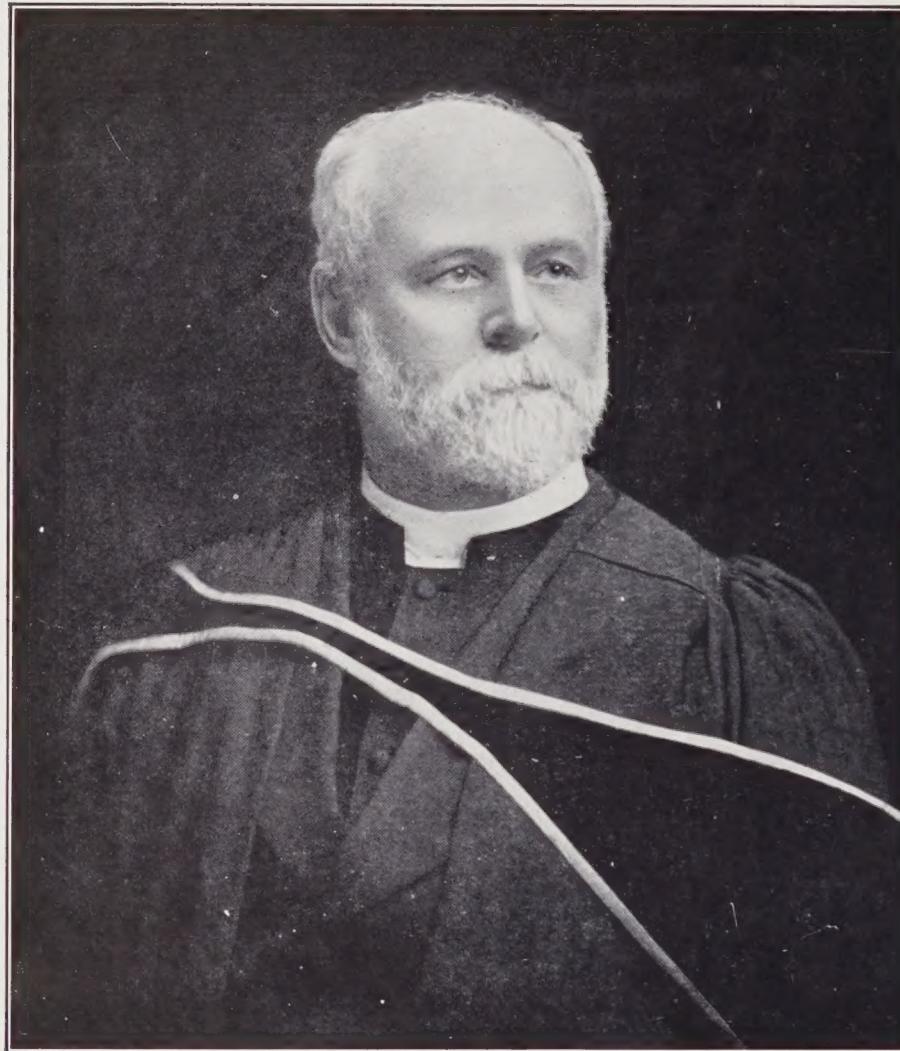
April 22. 1912.





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PRINCIPAL GORDON.

To Our Principal  
The Rev. Miner Gordon, M.A., D.D.  
whose kindly interest  
in all that pertains to the student's welfare  
we gratefully acknowledge.

This book is respectfully dedicated  
by the students' of the Senior Year in Science  
of Queen's University,

April, 1912



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Queen's Yell.

Queen's! Queen's! Queen's!  
Oil thigh, na banrighinn gu brath,  
Cha gheil! Cha gheil! Cha gheil!



Science Yell.

Steam drills, concentrators,  
Gold and iron ore,  
Science Hall forever,  
Queen's forever more!

Science '12 Yell,

We are it! We are all!  
Science '12 of Science Hall!  
T-w-e-l-v-e. Twelve!



THE CHANCELLOR  
SIR SANDFORD FLEMING, K.C.M.G.

## Science '12 Song

Tune—All Alone.

Hello, freshmen, sophomores, juniors, take a look at us!  
We're the year to pattern from, or you'll soon be on the bum.  
We are noted, we have done things, made the Arts men cuss,  
If you follow, you'll wear diamonds and learn how to fuss.  
We have set a hard pace for you and we only wish to say, that

*Chorus.*

Science '12, Science '12, we are the Final Year,  
We will soon be leaving, hope you won't be grieving,  
We have kindest thoughts for all the years behind us.  
Science '12, Science '12, we hate to leave old Queen's;  
May we ever do her honour, and heap wealth upon her,  
Science '12 will soon be wearing jeans.

Hello, ladies from Levana, and you city girls,  
We'll soon be leaving you, but you mustn't feel too blue.  
We've enjoyed it every moment, and we think you're pearls,  
And we'll often dream about you when we're using Searles.  
We'll keep dropping letters ever, so you will forget us never.

*Chorus.*

Science '12, Science '12, we are the Final Year,  
We will soon be leaving, hope you won't be grieving,  
We'll have fondest thoughts for all the girls behind us.  
Science '12, Science '12, we hate to leave our 'queens',  
But if there are no others, we will have our brothers  
Take our place while we are wearing jeans.

Hello, all you Science profs., and lecturers sedate,  
We have often troubled you, caused you many worries too;  
But you'll surely feel rewarded when we graduate,  
And we'll often think about you, working soon and late;  
We will often wish we had you, just to show us what to do, for

*Chorus.*

Science '12, Science '12, we are the Final Year,  
We will soon be leaving, hope you won't be grieving.  
We'll have kindest thoughts for all the profs. behind us.  
Science '12, Science '12, we hate to leave old Queen's;  
May we ever do her honour, and heap wealth upon her,  
Science '12 will soon be wearing jeans.



No. 5 FIELD CO. CANADIAN ENGINEERS.



FRESHMAN YEAR.



FINAL YEAR.

## History Science '12

1908-09.

This illustrious year received a hale and hearty initiation in October, 1908, when a hundred young and ambitious followers enlisted to share its glories and misfortunes. That annual "rush", which lasted an hour, will not be forgotten by those who took part in it. In this encounter with the haughty sophomores we gave them a bad scare, and put them in for damages to J. D.'s pretty gym. to the tune of seventy-five dollars.

We were no doubt as fresh and unsophisticated as the average freshies, but we didn't see things that way then. For fear that this thought might be a fact, we will not linger long on those mysterious but happy days.

Several of our worthies first drew blood from Arts '12 when they sallied forth to the enemy's camp while they were making merry, and captured the frozen dreams of those poor innocents. We were never forgiven for this, so to be kind and lend them a helping hand we decided to show them how to conduct yearly elections. However, the best we could do for them was to elect some Science men to their honored offices. It was during this happy year that the last notable scrap occurred between the students and the "cops". After the A.M.S. elections an egg shower was staged at the opera house. One of our braves occupied a soft but unwelcome bunk in that old stone building, the calaboose, for the night as a result of this.

It is not the opportunity of every freshman year to have one of their members reach the senior rugby team, but "Tout" Leckie accomplished this and made good. Then

came that awful month of April, where we were to receive our first concentration.

1909-10.

As a result of this said process of treatment, we found ourselves in September with some seventy-five members. During this, our sophomore year, more fame and fortune came to us. We met the 1913 class in the open, and there was nothing to it after fifteen minutes "play." This easy victory was sweet revenge, although we would much rather have had it on that '11 crowd.

Both the football teams were captained by Science '12 men this year, Carmichael leading the soccer team, and Leckie the rugby squad. In the assault-at-arms, Carmichael won the fencing championship, while Alderson and McNicol both captured a boxing Q. We now had to face a second "round" with the professors, and the hardest one in the college course.

1910-11.

We entered our junior year with 60 names enrolled, and prepared to take life more easily. Football drew on '12 for players more heavily than before, and we were able to give them good men. "Ed." Elliott and "Anna" Erskine played on the rugby team, while Leo Trimble, E. L. Longmore, and Carmichael decorated the soccer team. Besides these men the year contributed largely to the second and third teams, which are the source of future first teams.

In the winter months we put on our first college dance in Grant Hall. This was a great success and took a high place among the dances that year. Going to the Gym., we

see that Carmichael again won with the foils while "Ed." Elliott and "Dunc." Dewar received their Q's for boxing. The hockey team was captained by Greg. George this winter. His ability, together with Leo Trimble's, enabled the team to make a good showing.

After Convocation, the whole year went to field camp for two weeks. The miners surveyed the mica mine at Sydenham, and had a fine experience. Who can forget the cook—and cookie? At the same time the civils stormed Kingston Mills and made things lively there. Those few days went very quickly, and every one voted them as being some of the most pleasant they had experienced. This was a fine year for Science in the A.M.S. elections, where the Presidency and five other offices came to Fleming Hall. The good assistance rendered by '12 in this campaign was no small factor in the great success.

#### 1911-12.

Here we find ourselves beginning the last lap of the race for a B.Sc., with some 66 "paid up" fees. This is a record in Science for a graduating year, and is likely to remain one for some time. Again we find ourselves represented on the gridiron. George and Cooke were seen in rugby uniforms, while Longmore and Trimble again chased the ball for the "choppies." MacGregor, the "white hope" from Parkhill, and Watts, tried to hold the Cadets in rugby. But in spite of these men, the score nearly reached 100% efficiency. The old feud which had existed for three years between the "Muckers" and Civils on the campus was decided for all time to come. In this exciting game, which the Miners took, many old grudges were settled. The Final year took an excursion to Deloro and neighborhood to examine the mines and plants there. Every

one who went reported a fine time, although it was found very "dry" for some. Our friend R. R. W. still hears from that country.

Fame came to the year from a new source this term, brought by Huff, Kemp, and Sawyer. These fellows added the required "science" to the Dramatic Club, and received their reward in the form of bottled bouquets at the final production. The Glee Club was encouraged to continue their attempts, when Teddy Goodwin and A. Bertram joined their ranks.

The annual parade was an even greater success than usual, and Science '12 led in both position and grandeur. This grand and spectacular sight brought forth loud praise from the crowded streets, and was one that the year will long remember.

We were again given the opportunity to be the hosts at Grant Hall, when the Final Year dance was held. To show that we can take our places with the rest of them, when it comes to a waxed floor, we will show a few figures. The dance was restricted to 200 couples, and Science took 140 of these, of which the final year held 40.

Directly after this pleasant event we staged "THE" dinner. Mr. Kendall and fellow-workers excelled themselves on this occasion. Many fine speeches were heard, and a splendid faculty song was rendered. Very soon after Christmas we gave the famous Science dance. At this event the dancers had a chance to hear Toronto's famous Bodley Orchestra, which gave the dance a "swing" that left fond remembrances.

The hockey teams were given fine assistance by the year, and many of our players were seen on the ice. As a remembrance to hockey days at Queen's, we donated a

splendid silver cup for inter-year competition in the faculty. Once more "Dunc." brought home the boxing championship at 135; while Sid. Dawson also sprung into the limelight with the gloves and won a big Q at Toronto.

A very important branch of sport, and one of credit to Science '12, has not yet been mentioned in this history, namely basketball. That Science '12 more than held their own in this great indoor game is shown by the following extract from the Queen's Journal:

"In connection with Twelve's win over Fourteen on Tuesday, in the inter-year basketball league whereby they won the championship for the third consecutive time, some account of their record and of the service they have rendered basketball is not out of place. In the season of 1908-9 it was observed by those who frequented the g.m. that a new type of basketball had appeared. Sully, Menies and Cormack had played a most effective game before that, but their style was to work the ball right under the basket, and then shoot for the ring. Leckie, Erskine, VanSickle and Wilson, the Science freshmen of the year, shot differently. They used the board behind the basket, and sent the ball hard against it with a wrist snap from some distance out. Which is the more effective style for general use is a debatable question. Both have strong advocates. At any rate it was the snap shot from the wrist that gained popular favor, and for the last four years everyone who aspires to be a player spends hours banging the ball against the back boards. In Twelve's first season Ten won the championship, but only after a hard fight. Leckie and Erskine played forward; Turner, now of McGill, was centre, and Wilson and VanSickle were defence. In the next year Jimmy Wardle had gained skill,

and he went up forward with Leckie, Erskine came back to centre, and Watts joined VanSickle at defence. The team has remained unchanged for three years, and though hard pressed at times, has always rallied at the critical moments, and nosed out a victory. 'Dutch' VanSickle is as steady as a player as there could be on a team; it would be hard for the players to take an aeroplane flight while he was on the floor. Watts is a very smooth defence player, who bothers his forward exceedingly, and occasionally romps down the floor for a shot on his own hook. 'Anna' Erskine has weight, speed and a deadly shot. Jimmy Wardle is the hardest worker on the team, and the defence man who covers him runs a Marathon before the end of the game. 'Tout' Leckie is perhaps the most finished player in college. In addition to his great pair of hands which all rugby fans know, he has gray matter to throw away, and knows about 'steen ways of making his check unhappy. Some of the team will be around next year, but the great quintette will be broken. However, their record has been a very proud one, and they are content now to let a younger generation arise, and win the laurels."

In conclusion, we all agree in saying that one of the best bunch of fellows ever in attendance at Queen's will break up with the graduation of Science '12. We have had our turn at the different ropes, and will retire from the scene of action with the happiest of recollections of our time spent in Kingston—provided that 66 "sheep skins come our way. It is to be hoped that the success that has been ours will follow each one when he has left and people are saying "Science '12 is now wearing jeans."



ADMINISTRATION BUILDING.

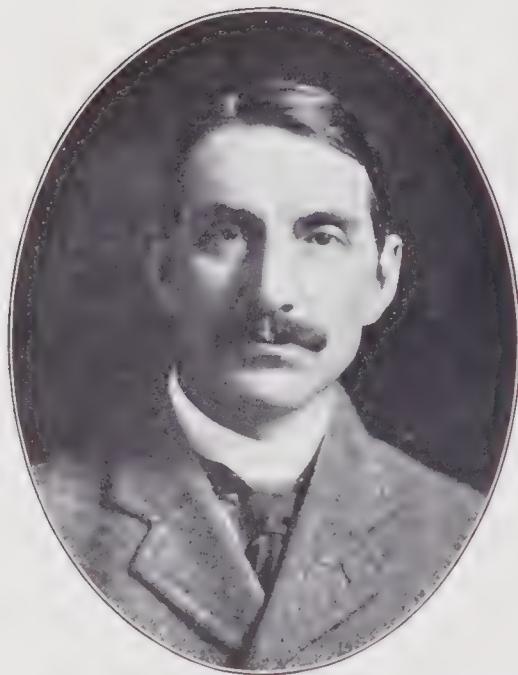


PROF. W. L. GOODWIN, B.Sc., D.Sc., F.R.S.C.  
Director of the School of Mining.



FLEMING HALL.

*Page Seventeen*



J .C. GWILLIM, B.Sc.  
Professor of Mining.



S. F. KIRKPATRICK, M.Sc.  
Professor of Metallurgy.



M. B. BAKER, B.A., B.Sc.  
Professor of Geology.



WM. NICOL, M.A.  
Professor of Mineralogy.



ONTARIO HALL.

MINING—METALLURGY



W. P. ALDERSON (Aldy)  
The man from Mexico.



R. BARTLETT  
The B.C. mining authority.



H. F. BERRY (Ford)  
But not a blue berry by any means.

MINING—METALLURGY



A. BARTON (Rosey)

"My purse, my person, my extremest means,  
Lie all unlocked to your occasions."



G. BOLTON (Caboose)

"I can charm you on the fiddle."



W. E. COOK (Si)

He has not yet reached the North Pole.

MINING—METALLURGY



S. G. DAWSON (Syd)  
"Who loves no music but the dollar's clink."



D. F. DEWAR (Dunc)  
His favorite magazine is "Punch."



W. B. DONOGHUE  
Who introduced the caving system at the  
Medical Dinner.

MINING—METALLURGY



R. A. ELLIOTT (R. A.)  
"Music for a time doth change his nature."



G. A. GEORGE (Greg)  
One of the first hockey players to put his  
foot in the Allan Cup.



E. L. GOODWIN (Ted)  
"Judge of a man by his questions rather  
than by his answers."

MINING—METALLURGY



F. H. HUFF (Shankey)  
"If we always thought before acting, there  
would be fewer actors."



W. D. HARDING (Sunshine)  
"A rare compound of oddity, frolic and  
fun."



L. A. KINNEAR (Spider)  
"The jolliest chum since the flood."

MINING—METALLURGY



A. L. LEWIS (Scratch)  
"Let me play the lion, and I will roar."



W. LOSEE (Bill)  
What I know about fussing: Σ O.



E. L. LONGMORE (Lyn.)  
"You have a noble and a true conceit  
Of god-like amity."



THE OLD MILL.

MINING—METALLURGY



M. MEIKLE (Little Meik)  
"By my troth! my little body is aweary of  
this great world."



S. E. McGREGOR (Wee Mac)  
"And all his looks a calm disclose of inno-  
cence and truth."



F. McCULLOUGH (Scully)  
In topographic work he always "sights on  
the yell."

MINING—METALLURGY



J. R. MCPHERSON (Sandy)  
"And there's no a man in all Scotland  
But I'll brave him at a word."



L. PRETTIE  
Who calls the Profs. by their first names.



R. A. ROGERS  
One of the "silent men who do things."

MINING—METALLURGY



J. A. T. ROBERTSON (Robby)  
The engineer of the Science election  
machine.



E. P. SAWYER (Tom)  
The man who made Mark Twain famous.



J. E. SOMERVILLE (Sommy)  
“You, Cassius, hath a lean and hungry  
look.”

MINING—METALLURGY



E. F. WALDNER (California)  
"I would rather be right than be president."



W. TOWER (Bill)  
A subject of Old King Coal.

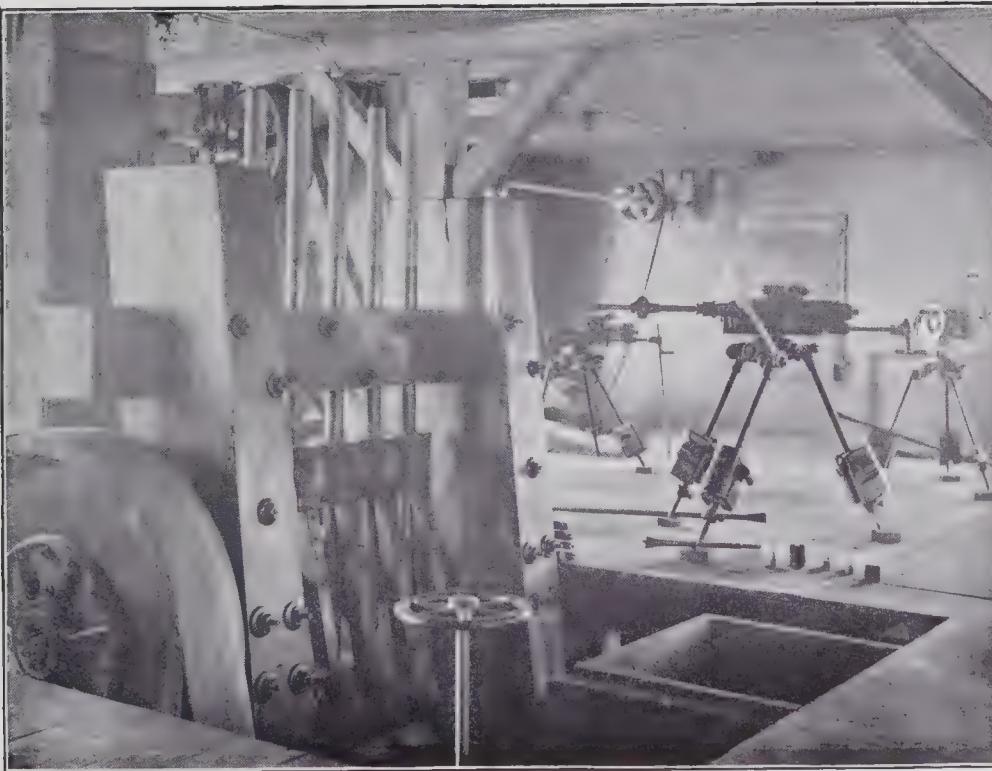
MINING—METALLURGY



E. E. WATTS (Owatty)  
"And still they gazed and still the wonder  
grew,  
That one small head could carry all he  
knew."



R. R. WATSON (Watty)  
Watty is our good "Old Chum",  
He's famous for his "Payroll" gum.



INTERIOR OF MILL.



ALEXANDER McPHAIL, B.Sc.  
Professor of General Engineering.



A. K. KIRKPATRICK, C.E.  
Professor of Civil Engineering.



LINDSAY MALCOLM, B.A., B.Sc.  
Professor of Municipal Engineering.



CARRUTHERS HALL, CIVIL ENGINEERING BUILDING.

CIVIL—POWER



C. C. FITZGERALD (Fitz)  
“They laughed to see his little hat,  
With such a narrow brim.”



D. B. GOW  
“Why, what a madcap hath heaven lent us  
here!”

CIVIL—POWER



A. W .GRAY (Andy)

Andy says: "Improved highway constructions will help solve the problem, How to Keep the Boy on the Farm."



W. C. GRIESBACH

"Alas he is too young!  
Yet he looks successfully."



G. E. HOWELL (Mary)

"The glass of fashion and the mould of form,  
The observed of all observers."

CIVIL—POWER



S. IRELAND (Syd.)

His chief ambition is to keep the city pavements passable for the ladies.



M. A. KEMP (Ma)

"In ancient and also in modern periods we find a few poets who are accounted perfect."



L. E. KENDALL (Ezra)

Our mathematical genius.

CIVIL—POWER



B. F. LAMSON (Freak)  
“On with the dance,  
Let joy be unconfined!”



N. MALLOCH (Norm)  
“What hath night to do with sleep.”



A. U. MEIKLE (Big Meik)  
“Love me, love my dog.”

CIVIL—POWER



J. MOYER (John)  
“I heard him complain,  
You have waked me too soon,  
I must slumber again.”



T. B. MULLEN  
Work or play—T. B. is game for either.



J. E. McKENZIE  
“The Calgary Eye Opener.”

CIVIL—POWER



J. A. McNICHOL (Mac)  
“Ah, how good it feels!—the hand of an  
old friend.”



W. H. NORRISH  
Who focuses the spot light to illuminate  
others.



C. B. PIERCE  
“A hot race is usually won by a cool head.”

CIVIL—POWER



L. PHILIPS (Foxy)  
The Tom Philips of the Boarding House  
League.



S. A. PURVIS  
“A man he was to all the college known;  
But matrimony claimed him for her own.”



G. T. RICE  
“Along the cool sequestered vale of life,  
He kept the noiseless tenor of his way.”

CIVIL—POWER



A. E. RUDD  
Another Benedict.



S. S. SCOVIL (Buzz)  
“Short of stature and shorter of hair,  
But speaking of brains, the goods are  
there.”



E. G. SIRVAGE  
He lives to skate—and skates to live.

CIVIL—POWER



E. S. SMYTH (Ted)  
"Studies serve for delight, for ornament,  
and for ability."



J. M. WARDLE (Jim)  
Originator of the "Look-and-See" method  
of design.



KINGSTON BUILDING.



ONTARIO HALL, FLEMING HALL, CARRUTHERS HALL.



L. W. GILL, M.Sc.  
Professor of Electrical Engineering.



F. O. WILLHOFFT, M.E., M.A.  
Professor of Mechanical Engineering.

ELECTRICAL—MECHANICAL



W. V. ASSELSTINE  
A multi-phase alternator.



A. S. BERTRAM (Bert)  
“For he will never follow anything  
That other men begin.”



H. P. FAIRBAIRN  
A “sparking” machine of high potential.



R. J. LARUSH

When he dies, the word "electricity" will  
be found written on his heart.



A. L. MORGAN

Not J. Pierpont.



A. SCHREIBER  
Our ambassador to Germany.



E. R. SHIRLEY  
The reasons for the success of the G. E.  
Co. may be summed up in one word—  
Shirley.



INTERIOR OF THE GYM.



J. MATHESON, M.A.  
Professor of Mathematics.



A. L. CLARK, M.A., Ph.D.  
Professor of Physics.



J. WADDELL, B.A., D.Sc., Ph.D.  
Assistant Professor of Chemistry.



W. C. BAKER, M.A.  
Assistant Professor of Physics.



GORDON HALL.

CHEMISTRY—MINEROLOGY—GEOLOGY



M. BURROWS

He practices the mysteries of Alchemy.



S. McCANN (Syd.)

"Knew every wily train,  
A lady's fickle heart to gain."



McEWAN

The Great McEwan.

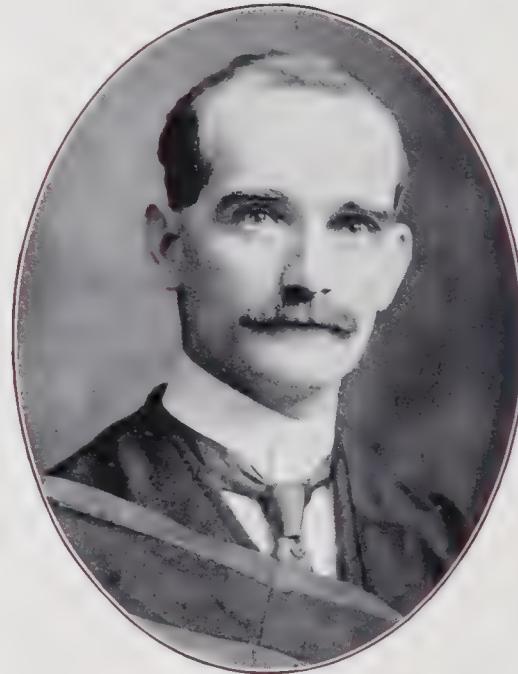
CHEMISTRY—MINEROLOGY—GEOLOGY



H. McKEIL (Boxer)  
His attendance at the rink is 80%.



J. M. SCOTT  
He analyzed the earth and found it to be  
a molecule.



E. A. THOMPSON  
The mildest Roman of them all.



## Science '12 Cup.

This cup was presented by our year to the Engineering Society, for the purpose of promoting the interests of hockey. It is to be played for annually by the different years in Science, the first holders being year '14.



INTERIOR OF GRANT HALL.

RED ROOM.





TENNIS COURTS ON QUADRANGLE.



LOWER CAMPUS.



## Allan Cup.

With the changing of the Stanley Cup from an amateur to a professional trophy, it was felt that there should be a cup emblematic of the amateur hockey championship of Canada. In fulfilment of this, during the season of 1909 Sir Montagu Allan offered a magnificent cup for the purpose. This was technically presented to the Cliffsides of Ottawa as winners in the Interprovincial League that year, but they lost it to Queen's, the Intercollegiate champions, before the cup was out of the maker's hands. Consequently, the Queen's Hockey Club was the first to really hold it. On the Queen's team that year Science '12 had two representatives, Trimble and G. George, to whose efforts the success of the team was greatly due. A. U. Meikle was spare man.

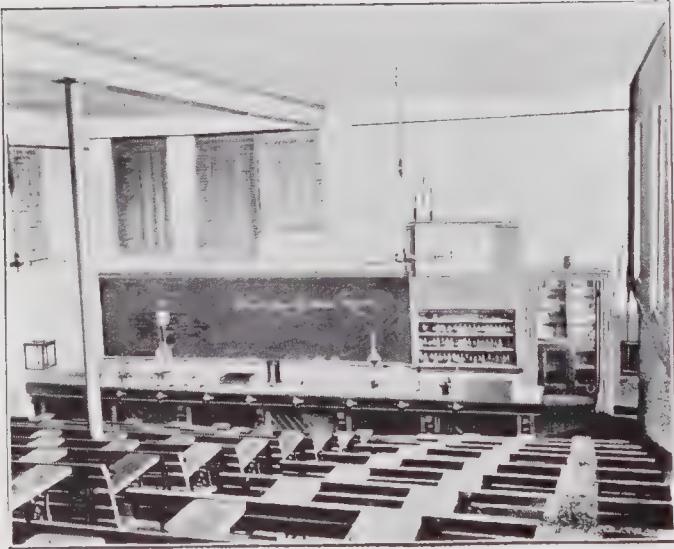
The season was too far advanced for any more games, so the cup reposed in state in the Queen's Library until the next winter. Queen's again won the Intercollegiate title in 1910, and had to defend the cup against St. Michael's, of Toronto. In a hard, close game the latter team won the cup, but lost it by default to Victorias of Winnipeg. This team has successfully defended the title, and has held possession of the cup against Calgary, Eatons (Toronto), and Regina.



DUPUIS OBSERVATORY.



GRANT HALL AND KINGSTON BUILDING.



#### OLD CHEMISTRY LECTURE ROOM.

This cut shows a view of the historic old Chemistry lecture room in Carruthers Hall, where Dr. Goodwin laid down the laws of chemistry to generations of freshmen. With the altering of Carruthers Hall to suit the growing requirements of the Civil Engineering classes, this room has passed away, and with it the banging of the steam-pipes which used to greet the Doctor's jokes. Here also the sessions of the Science court were held, where the Court constables dragged the petty offenders down the steep steps (together with the arms of seats or whatever else the prisoner could grab) to the "tub." Even though the change in this building is an evidence of advancement, those who have taken part in the "doings" that have happened there, cannot help a slight feeling of regret at the passing of the old lecture room.

## ...Prophecy...

After years of absence the Prophet returned on a visit to reconstruct his geography of old Queen's. The place was greatly changed. A large Physics building stood at the corner of University and Union; farther down the latter street was a splendid Students' Union; where the old wooden rinks once stood there was now a huge concrete and steel arena; the Gwillim Building, a large stone edifice, occupied the space once filled by the Mechanical Lab. and the Mining Lab.; while the whole of the lower campus was occupied by a fine new Armoury.

While wandering through Gordon Hall the Prophet met Professor Guttmann, who was tickled to meet one of his old class. "You must really come and see my lantern, old chap," he said eagerly. "I have it set up at last." Nothing lothe, the Prophet accompanied him to the classroom where the long-promised lantern stood. The Professor had just thrown a few slides on the screen when something went wrong and he commenced tinkering with the carbons. After some time the "Seer" said he would go out for a smoke, and had just reached the tennis courts when an aeroplane swooped down from the clouds and quickly came to rest before him. Professor Gill jumped out, and shook hands as he recognized one of the famous class of '12. He proudly pointed out the various mechanical devices on the machine which he had perfected and announced with pride that he obtained speed as high as 400 and 500 miles per hour. He offered to take the Prophet on a little run, and, the latter eagerly accepting, they started at once.

With scarcely a sound, and with motion as smooth as silk, the bird machine rose, and the earth fell away like a flash. In a minute the University had disappeared and the country beneath became a mere birdseye view. They headed North, and, as their speed increased, Prof. Gill drew down a strong screen to protect their eyes from contact with flying objects. Faster and faster they went, until scattered trees looked like a forest and farm houses became like a town.

Suddenly the Prof. slowed the plane down, and explained that they were now near the Ottawa river where the Georgian Bay Canal was being constructed, and where he would show the Prophet many interesting things. Looking down, they at last spied the Ottawa river, and their course was changed so that they now followed the river west. Signs of great engineering works could be seen, and at last the Chats falls were reached and the Professor brought the machine to earth

A huge dam was in course of erection, and thousands of men were at work in all directions. Suddenly a heavy hand fell on his shoulder and Andy Gray's voice said: "Well, this is a sight for sore eyes! Welcome to our city! We've got all the boys here, come and have a look at our work. I'm chief Engineer here." Sure enough there they were! John Moyer was superintendent of construction and ruled his gang with a rod of iron. Jim MacKenzie and Foxy Philips were running transit lines up and down the

top of the finished portions of the dam. Griesbach, now sporting distinct traces of a moustache, was in charge of the Aesthetic Branch of the Designing department. Pierce had made a name for himself as a foundation expert. Fitzgerald was chief draughtsman, and sang in Norrish's moving picture show at night. Sirvage, Bourgoing, and Mullen, still together, were draftsmen. Jim Wardle still adhered to his look-and-see method of designing, and had a goodly amount of success in his undertakings. Mary Howell was the representative of the Hamilton Bridge Works. Kemp wrote songs for Fitzgerald. Ben Lamson ran a dance hall, with Doug. Anglin as manager. Gow was chief of police on the work, and it was said that he had threatened to arrest several men on one occasion. Peg-Leg Malloch was chief engineer on the construction railway, a line nearly 700 yards long and 3 feet wide. Big Meik was Chief Surveyor. He had his dog trained in the work, with its tail painted after the style of a picket. Purvis was in charge of the hydrographic survey, with his party made up of several of his sons. Rice and Ted Smythe were working on the design of a rivet to replace one that had been broken out of a plate girder. After speaking to the '12 men there, the Prophet accompanied Gray back to the office to have a little smoke. Andy asked, "Well, Scove, old man, what have you been doing?" "Oh, nothing much now. I promoted a road from Kenora to the North Pole, and have retired on my profits. The road hasn't been built yet, however." Just at this moment J. A. McNicol arrived at the works. Mac was Chief Engineer of the C.P.R. and was investigating the power pos-

sibilities, with a view to electrification of his road. With him was Syd. Ireland, consulting engineer for the Lindsay Malcolm Construction Co., which was building the dam. Morgan was the cement expert for this Co. Prof. Sandy Macphail was spending the summer taking photographs for his civil class of 1930, while Prof. Kirkpatrick was gathering information for his proposed book on "Dams and the Damnation of Rivers." The party next proceeded to the power plant which was under construction, L. E. Kendall being in charge. Ken was fatter than ever, and attributed his success to the fact that he smoked cigars. Norrish had collaborated with Ken in this work, but finally left it to enter the more remunerative field of moving picture engineering. The installation of the electrical plant was in charge of Shirley, whose electric motor had made such a sensation in the mechanical world. LaRush represented the LaRush Transformer Co., whose instruments were now considered standard. Gauss Cameron was at his old occupation of plotting curves, and kicked when anyone smoked in his office. Asselstine and Fairbairn were linemen, and mighty good ones, it was said. In charge of the machine repair shops was our old friend Bertram. Adolph Shreiber was with him, and was correspondent to the "Motorvagen", a German publication.

Prof. Gill said it was time to start, as he wished to take a run farther north to visit the muckers of Science '12 in the Hudson Bay district. Amidst a thunderous farewell and the Queen's yell from the Engineers, the airship once more rose into the air. The last words the fliers heard were: "If you see any likely-looking recruits send them

to Queen's, we want them in the Engineers', from Major McPhail. In a moment the swiftly moving machine had carried them beyond sight or hearing. For hours they flew over the ever-changing country. For miles there would be nothing but forest in sight, broken here and there only by a silvery thread, indicating a river. Then a barren expanse would come into view only to give way to forest once more. Finally they shot out over a vast expanse of water which Prof. Gill said was Hudson Bay. In less than half an hour smoke from some metallurgical works was sighted about ten miles ahead, so the machine slowed down to one hundred miles per hour and then in a few seconds the engine was stopped. A swift, smooth descent, and in a moment they landed gently in an open space in front of what proved to be a large metallurgical plant. The sign over the door indicated that the plant was owned and operated by Prof. Stafford Kirkpatrick, who came out to greet them. He said that the whole of the year '12 Muckers were in that district. This camp was situated on the west shore of Hudson Bay, at Wabuk Point, and was known as the great Thallium Camp. Prof. Kirkpatrick stated that Burrows was his chief chemist, and that McEwen was carrying on research work on the thallium matte from the E. L. Goodwin blast furnace. This was a new basic lined blast furnace, invented by Teddy Goodwin. J. M. Scott had just arrived with Prof. Willhofft, who was giving his newly-invented automobile a cross-country test. Scott, as representative of the Dr. Waddell Chemical Co., was negotiating for the entire output of the thallium from this plant, after it had passed the exper-

mental stage. Prof. Kirkpatrick then took the prophet through the camp, first visiting the Donaghue Mine, which was the largest in the place. Donaghue had introduced the caving system in this mine, and was then working on the nine-foot level. Bolton was the hoisting engineer, this work being done Mexican fashion. Watts was the mine surveyor, but didn't appear to be overworked. He was captain of the Thallium Basketball team, then leaders in the Hudson Bay League. Berry, Losee, Caton, Cook, and Bolton did a little placer mining along the Winisk river. They also ran the general store, with a dance hall at the back where every evening Losee and Berry supplied the best of music. The Little-Meik Thallium Concentrating plant had just been completed. John Marshall was manager, while Greg. George was the rest of the staff.

The aeroplane party then proceeded to the Radium Camp, discovered by Spider Kinnear, near Fort Severn. Here they saw R. A. Elliott at work on the Waldner No. 1 dredge. He was in great trouble, having placed the stacker where the bucket-line should have been. Hearing some laughter in a building bearing the sign, "The Robertson Sampling Mill", they entered. Seated at a table playing cribbage were Tom Sawyer (just in from a sampling trip) to Rogers' anthrophylite mine, Waldner (who was waiting for the completion of his dredge), Summerville (Sawyer's assistant), and Robertson, the owner of the plant. Hearing a noise outside, the Prophet looked through the window and saw Scratch Lewis with a bag marked Globe, Arizona. On being told that Lewis was there with a bag of ore to be sampled, Robertson, indig-

nant that the game should be interrupted, said, "Don't make a noise and perhaps he'll go away." After waiting for a few minutes Lewis started back for Arizona. Soon McGregor and Watson came in, their diamond drill operations having been suspended until they recovered a plug of "pay-roll", which one of them had dropped down the casing a week before. Leaving the cribbage friends, they entered the office of Bartlett and Thompson, Assayers and consulting Engineers. These energetic young men also ran the Athletic Club, where nightly exhibitions of boxing were given by Dewar and Dawson, who were willing to meet all comers for a side bet of a pound of radium. Dewar's air compressor plant supplied the camp, while Dawson was installing the Dawson Filter Presses in the new Barton Mill. Rosey Barton also had Huff installing Huff Electro-static Separators in his mill. Alderson was seated in the office, waiting for the results of an assay of some pyromorphite samples which he thought might contain radium. Our old friend Bill Drury, now Dr. Drury, and the head of the Radium Institute, was also there. Bill was contemplating establishing a branch institute in the camp.

Once more they started northwest and about 20 miles farther on they stopped at Prof. Billy Nicol's camp. Prof. Billy, with Prettie as assistant, was installing a plant, imported from Edar, Germany, for the purpose of cutting diamonds which the Prof. expected to find in the lower Silurian of the district. He stated that the '12 Muckers had financed the venture. Obtaining directions from him, the Prophet and his guide proceeded to Cape Tatman, where

the Gwillim Coal Fields were situated. Here he found Sunny Bill Harding in charge of mining operations at the Kilmarnock Mine, while Longmore held a similar position in the Q.U.M.A. Mine. Bill Tower, as Fire Boss, was kept busy cautioning Longmore not to throw cigarette butts around the mine. Scotch MacPherson and Scully McCullough were doing topographical work in the camp. Scully's picket men were not called by that name, but "yell men." He preferred Chinamen for this work as they are yellow. Sid. McCann and Prof. Manly Baker were preparing a geological map of the district, which they intended should accompany their book on "The Coal Deposits of the Silurian Igneous Area." In this camp all shafts and adits were lined with concrete, no timbers being used. The cement was obtained from the famous McKeil Cement Works at Port Arthur.

As it was now getting late, Prof. Gill suggested returning to Kingston. A word of farewell and they were off once more. The engine worked perfectly, and the Prof.'s automobile balancing compensator kept the machine steady. It was a fascinating experience, whizzing through the air at 500 miles per hour, and it seemed but a short time until they once more landed at Gordon Hall at midnight. The Prophet saw a light and remembered Dr. Guttmann and his lantern. Thanking Prof. Gill for his trip, he tore into the building and up to the lecture room. Prof. Guttmann looked up as he entered, and smilingly said, "I'm glad you didn't wait to take your smoke for I have now got the lantern working properly and can show you the rest of those slides."



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